

**INFORMATION DISCLOSURE CITATION WITH DOCUMENT COPIES**

Submitted by: <i>Jimmy L. Funke</i> JIMMY L FUNKE Delphi Technologies, Inc.,	Atty. Docket No. DP-302459	Serial No. 09/881,641
	Applicant MICHAEL RALPH FOSTER	
Reg. No. 34,166	Filing Date June 14, 2001	Group 1764

**U.S. PATENT DOCUMENTS**

Exam. Init.	Document Number	Date	Name	Class	Sub Class	Filing Date (if approp.)
<i>M</i>	6,638,484	10/28/2003	Nelson, et al.			
	6,537,507	03/25/2003	Nelson, et al.			
	6,482,368	11/19/2002	Hemingway, et al.			
	6,464,945	10/15/2002	Hemingway			
	6,423,190	07/23/2002	Hemingway, et al.			
	6,368,451	04/09/2002	Goulette, et al.			
	6,354,903	03/12/2002	Nelson			
<i>W</i>	6,338,827	01/15/2002	Nelson, et al.			

**FOREIGN PATENT DOCUMENTS**

Document Number	Date	Country	Class	Subclass	Translation Yes   No

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**


Examiner *Hen Tran* Date Considered *1/3/05*

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m	3,450,617	06/17/1969	Hellund, E.L.			08/22/1966
	3,541,379	11/17/1970	Holden, C. B.			09/11/1967
	3,979,193	09/07/1976	Sikich			11/29/1974
	4,695,358	09/22/1987	Mizuno, et al.	204	174	11/08/1985
	4,795,617	01/03/1989	O'Hare	422	186.15	01/16/1984
	4,813,231	03/21/1989	Bykowski	60	274	10/07/1987
	4,945,721	08/07/1990	Cornwell, et al.	60	274	04/14/1988
m	5,044,157	09/03/1991	Henkel	60	274	10/13/1989

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Document Number	Date	Country	Class	Subclass	Translation Yes   No
m DE3708508	16.03.87	Germany			NO
m GB2274412	14.12.93	Great Britain			
m CN1027828C	95.01.08	China			YES

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

m | Louis A. Rosocha; Los Alamos National Laboratory; *Nonthermal Plasma Applications to Pollution Control and Environmental Remediation*; First International Conference on Advanced Oxidation Technologies for Water and Air Remediation; London, Ontario, Canada, June 25-30, 1994.

m | Wachsman, Eric; Palitha Jayaweera; Victor L.K. Wong; Jon G. McCarty; Gopala Krishnan; Angel Sanjurjo; *Solid-Oxide Electrochemical Reduction and Selective Absorption of NO<sub>x</sub>*; Proceedings of the 1995 Diesel Engine Emissions Reduction Workshop, San Diego California, July 24-27, 1995; U.S. Department of Energy.

Examiner Henrihan | Date Considered 1/3/05

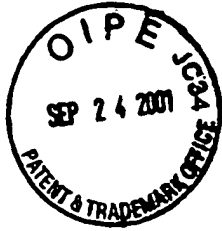
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m	5,141,714	08/25/1992	Obuchi, et al.	422	174	07/31/1990
	5,147,516	09/15/1992	Mathur, et al.	204	177	07/19/1990
	5,155,994	10/20/1992	Muraki, et al.	60	275	01/21/1992
	5,236,672	08/17/1993	Nunez, et al.	422	186.04	12/18/1991
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m	5,427,747	06/27/1995	Kong, et al.	422	186	06/08/1994

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Document Number	Date	Country	Class	Subclass	Translation Yes   No
m   JP63242323	1988.10.07	Japan			NO
m   JP4276167	1992.10.01	Japan			YES
m   JP6015143	1994.01.25	Japan			NO

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m | Huang, Shih-feng; Satoshi Ihara; Masashi Ishimine; Saburoh Satoh; Chobei Yamabe; *Reduction of NO<sub>x</sub> by a DC Positive Streamer Reactor with a Wire-to-Plane Electrodes*; Report of the Faculty of Science and Engineering, Saga University, Vol. 25, 1997; p 27-31.

m | Hammer, Thomas; Stefan Broer; 982428; *Plasma Enhanced Selective Catalytic Reduction of NO<sub>x</sub> for Diesel Cars*; Copyright 1998 Society of Automotive Engineers, Inc. p. 7-12.

Examiner Hen Tran | Date Considered 11/5/05

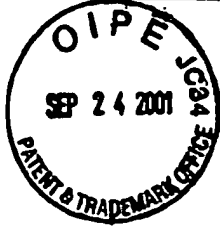
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	5,458,748	10/17/1995	Breault, et al.	204	177	09/20/1993
	5,492,678	02/20/1996	Ota, et al.	422	174	07/20/1994
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	5,695,619	12/09/1997	Williamson, et al.	204	165	05/25/1995
	5,746,984	05/05/1998	Hoard	422	169	06/28/1996
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W	JP6099031	1994.04.12	Japan			NO
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- W | Hoard, John; M. Lou Balmer; 982429; *Analysis of Plasma-Catalysis for Diesel NO<sub>x</sub> Remediation*; Copyright 1998 Society of Automotive Engineers, Inc.; p. 13-19.
- W | McLarnon, C.R.; V.K. Mathur; University of New Hampshire, *Nitrogen Oxide Decomposition by Barrier Discharge*; 1999 Diesel Engine Emissions Reduction Workshop, Maine Maritime Academy, Castine, Maine, July 5-9, 1999; IV-73-IV-78.

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m	6,253,544	07/03/2001	Miller, et al.	60	275	10/07/1999
m	6,264,899	07/24/2001	Caren, et al.	422	186.3	03/01/2000

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Document Number	Date	Country	Class	Subclass	Translation Yes   No
m JP6182150	1994.07.05	Japan			NO
m JP6269635	1994.09.27	Japan			NO
m JP486974A	3/1973	Japan			YES

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m Kupe, J.; Delphi Automotive Systems; *Non-Thermal Plasma Emission System for Diesel Exhaust After Treatment*; 1999 Diesel Engine Emissions Reduction Workshop; Maine Maritime Academy, Castine Maine, July 5-9, 1999; IV-29-64.

m Hemingway, Mark D.; Dave Goulette; Gene Ripley; Tom Thoreson; Joachim Kupe; Darrell Herling; Suresh Baskaran; Monty Smith; Del Lessor and Jud Virden; 1999-01-3639 *Evaluation of a Non-Thermal Plasma System for Remediation of NO<sub>x</sub> in Diesel Exhaust*; Copyright 1999, Society of Automotive Engineers, Inc.; p. 59-65.

m Hammer, Thomas; Tetsuo Kishimoto; Hans Miessner; Rolf Rudolph; 1999-01-3632; *Plasma Enhanced Selective Catalytic Reduction: Kinetics of NO<sub>x</sub>-Removal and Byproduct Formation*; Copyright 1999 Society of Automotive Engineers, Inc. p. 1-7.

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 June 14, 2001 |

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Exam. Init.	Document Number	Date	Country	Class	Subclass	Translation	
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W	0043477A2	20.06.81	[EPO] Germany				NO
	0585047A2	18.08.93	[EPO] Great Britain				
	EP0840838B1	18.07.96	[EPO] Germany				NO
	WO94/06543	31.03.94	[PCT] Germany				NO
	WO99/18333	15.04.99	[PCT] United States				
	WO00/04989	03.02.00	[PCT] United States				
	WO00/50743	31.08.00	[PCT] United States				
W	WO00/43469	27.07.00	[PCT] United States				

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W | Roth, Greg; Jim Rush; Vic Nowak; Mike Tyle; 2000-01-1845; *A Compact and Robust Corona Discharge Device (CDD™) for Generating Non-Thermal Plasma in Automotive Exhaust*; Copyright 2000 CEC and SAE International; p. 21-34.

W | Herling, Darrell; Monty Smith, Mark Hemingway, David Goulette, Tom Silvis; 2000-01-2899; *Evaluation of Corona Reactors of Several Geometries for a Plasma Assisted Nitrogen Oxide Emission Reduction Device*; Copyright 2000, Society of Automotive Engineers, Inc. p. 49-58.

W | Fisher, Galen B; Craig L DiMaggio; Aleksey Yezerets; Mayfair C. Kung; Harold H. Kung; Suresh Baskaran; John G. Frye; Monty R. Smith; Darrell R. Herling; William J. LeBarge; Joachim Kupe; 2000-01-2965 *Mechanistic Studies of the Catalytic Chemistry of NO<sub>x</sub> in Laboratory Plasma-Catalyst Reactors*; Copyright 2000 Society of Automotive Engineers, Inc. p. 79-87.

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Name: Leslie Mascatello

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Docket Number (Optional) <b>DP-302459 (DEP-0147)</b>	Application Number n/a
Applicant(s) <b>Foster et al.</b>	
Filing Date n/a	Group Art Unit n/a

11000 U.S. PTO  
 09/08/164  
 06/14/01

**U.S. PATENT DOCUMENTS**

*EXAMINER INITIAL	REF	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
M	1	5,692,481	12/02/1997	Miller	123	539	Dec. 19, 1995
	2	<del>5,746,984</del>	<del>05/05/1998</del>	<del>Hoard</del>	<del>422</del>	<del>169</del>	<del>Jun. 28, 1996</del>
M	3	5,806,305	09/15/1988	Miller, et al.	60	274	Jun. 28, 1996
	4	5,863,413	01/26/1999	Caren, et al.	205	688	Dec. 18, 1996
	5	6,012,283	01/11/2000	Miller, et al.	60	274	Jun. 23, 1998
	6	6,029,442	02/29/2000	Caren, et al.	60	275	Oct. 7, 1997
	7	6,047,543	04/11/2000	Caren, et al.	60	275	Jul. 24, 1998
	8	6,048,500	04/11/2000	Caren, et al.	422	186.3	Mar. 6, 1988
	9	6,139,694	10/31/2000	Rogers, et al.	204	177	May 28, 1998
	10	6,159,430	12/12/2000	Foster	422	179	Dec. 21, 1998
M	11	6,176,078 B1	01/23/2001	Balko, et al.	60	274	Nov. 13, 1998

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	REF	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO
M	1	JP05263467	21.10.93	JAPAN				

**OTHER DOCUMENTS** (Including Author, Title, Date, Pertinent Pages, Etc.)

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